

type within the printed wiring boards scheduled to be manufactured on the basis of the manufacturing schedule data stored in said schedule data storage unit;

a condition data storage unit storing manufacturing condition data for laying out printed wiring boards of different types on a single predetermined manufacturing block;

a grouping unit grouping each fractional printed wiring board detected by said detecting unit into any of groups according to the manufacturing condition data stored in said condition data storage unit; and

a determining unit determining, per group, layout to at least one predetermined manufacturing block of the fractional printed wiring board.

2. (Amended) A manufacturing system according to claim 1, wherein said detecting unit, if the number of printed wiring boards of a certain type scheduled to be manufactured cannot be divided completely by the maximum number of the printed wiring boards which can be laid out in a single predetermined manufacturing block, detects each printed wiring board corresponding to the number smaller than the maximum number or each printed wiring board corresponding to the remainder of the division as the fractional printed wiring board.

3. (Amended) A manufacturing system according to claim 1, wherein the manufacturing condition data is data produced by combining manufacturing request person's condition and manufacturer's condition.

4. (Amended) A manufacturing system according to claim 3, wherein the manufacturing request person's condition is shipment date.

5. (Amended) A manufacturing system according to claim 3, wherein the manufacturer's condition is number of layers of the printed wiring boards.

6. (Amended) A manufacturing system according to claim 4, wherein the manufacturer's condition is number of layers of the printed wiring boards.

7. (Amended) A manufacturing system according to claim 1 further comprising:
a CAD data creating unit creating CAD data corresponding to a combination determined by said determining unit; and

a CAD data converting unit creating CAM data or CAT data corresponding to CAD data created by said CAD data creating unit.

8. (Amended) A manufacturing system according to claim 7 further comprising:
manufacturing unit group carrying out manufacturing process for the printed wiring board using the CAM data or CAT data created by said CAD data converting unit.

9. (Amended) A manufacturing method for manufacturing printed wiring boards of plural types, printed wiring boards scheduled to be manufactured are laid out to at least one predetermined manufacturing block, comprising:

reading manufacturing schedule data including printed wiring board data including each type of the printed wiring boards and the number of each of the printed wiring boards scheduled to be manufactured;

detecting a fractional printed wiring board which should be laid out to a single predetermined manufacturing block together with a printed wiring board having a different type within the printed wiring boards scheduled to be manufactured on the basis of the manufacturing schedule data;

reading a manufacturing condition data for laying out printed wiring boards of different types on a single predetermined manufacturing block;

grouping each detected fractional printed wiring board into any of groups according to the manufacturing condition data; and

determining, per group, layout to at least one predetermined manufacturing block of the fractional printed wiring board.

10. (Amended) A computer-readable recording medium for recording a computer program for making a computer to carry out processes for manufacturing printed wiring boards, printed

wiring boards scheduled to be manufactured are laid out to at least one predetermined manufacturing block, the program comprising:

reading manufacturing schedule data including printed wiring board data including each type of the printed wiring boards and the number of each of the printed wiring boards scheduled to be manufactured;

detecting a fractional printed wiring board which should be laid out to a single predetermined manufacturing block together with a printed wiring board having a different type within the printed wiring boards scheduled to be manufactured on the basis of the multiple manufacturing schedule data;

reading manufacturing condition data for laying out printed wiring boards of different types to a single predetermined manufacturing block;

grouping the detected fractional printed wiring board into any of groups according to the manufacturing condition data; and

determining, per group, layout to at least one predetermined manufacturing block of the fractional printed wiring board.